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Notice of Allowability	Application No.	Applicant(s)
	09/675,386	SHIBAMOTO, GORO
	Examiner	Art Unit
	Mark Ruthkosky	1745
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. \square This communication is responsive to $\underline{5/21/2004}$.		
2. The allowed claim(s) is/are <u>1-3 and 5</u> .		
3. The drawings filed on 29 September 2000 are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	con's Patent Drawing Review . s Amendment / Comment or	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 CF	he drawings in the front (not the back) of FR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATI FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview So Paper No./ 8), 7. ☐ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance Mark Ruthkosky Primary Patent Examiner Art Unit: 1745

DETAILED ACTION

Claim Rejections - 35 USC § 103

The rejection of claims 1-3 and 5 under 35 U.S.C. 103(a) as being unpatentable over Segawa et al. (EP 936,690 A2) in view of Ibbotson et al. (US 4,287,274) has been overcome by the applicant's amendment.

Allowable Subject Matter

Claims 1-3 and 5 are allowed.

The following is a statement of reasons for allowance:

The instant claims are to a solid electrolyte cell comprising of a rolled electrolyte body consisting of a positive electrode having a strip electrode collector with both sides coated with a positive active material, and a negative electrode having a strip electrode collector with both sides coated with a negative active material, wherein the electrodes are layered with a solid electrolyte in between. The layers are rolled to form a rolled electrode body. The rolled electrodes have a current collector one-side exposed portion at their one end in the longitudinal direction positioned at the outermost circumference and the current collector one-side exposed portion covers the outer circumference of the rolled electrode body. The electrodes each have an exposed portion opposite the collector first exposed portion in the lengthwise direction that is rolled on the innermost circumference of the rolled body. The rolled electrode body is covered with a multi-layered cell casing.

The prior art does not teach a solid electrolyte cell with this configuration. The rolled electrode's current collector exposed portion that covers the outermost circumference of the rolled electrode body is used in combination with the multi-layered cell casing to dissipate heat caused when the cell is short-circuited. The exposed portion opposite the collector first exposed portion in the lengthwise direction is rolled on the innermost circumference of the rolled body to contact the negative electrode terminal. The inner exposed portion is folded in to roll the electrodes and the exposed portion is positioned inside the rolled body to be a non-reactive portion (see the paragraph bridging pages 8-9 and figure 7.)

The most pertinent art has been cited. Segawa et al. (EP 936,690 A2) teaches a non-aqueous electrolyte battery comprising of a rolled electrolyte body consisting of a positive electrode having a strip electrode collector with both sides coated with a positive active material, and a negative electrode having a strip electrode collector with both sides coated with a negative active material, wherein the electrodes are layered with a solid electrolyte in between (see claim 1 and figure 2). The rolled electrodes have a current collector one-side exposed portion at their one end in the longitudinal direction positioned at the outermost circumference and the current collector one-side exposed portion covers the outer circumference of the rolled electrode body (see claims 2-3.) The anode and cathodes are shown to have both sides of the collector free of active material at the same ends. The exterior circumference of the wound assembly is covered with the exposed portion of the collector for more than one turn. Various numbers of turns with and without active materials are described. The solid electrolyte layer contains a polymer separator imbibed with a salt and a swelling solvent. Carbonates are used as the swelling solvent in the instant example 1 and the reference. Segawa et al. (EP 936,690 A2) does not teach the

electrode to have an exposed portion at the opposite length end of the rolled electrode. The opposite end is fully covered as shown in figures 2 and 3 of Segawa et al. (EP 936,690 A2.) In addition, Segawa et al. (EP 936,690 A2) does not teach a solid electrolyte electrochemical cell comprising a rolled electrode body covered with a multi-layered cell casing. As such, the claimed configuration is not taught and the claims are considered allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Ruthkosky whose telephone number is 571-272-1291. The examiner can normally be reached on FLEX schedule (generally, Monday-Thursday from 9:00-6:30.) If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached at 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Mark Ruthkosky **Primary Patent Examiner**

Art Unit 1745

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